

Description	Precipitating polyclonal rabbit antiserum to human fibronectin	
Product code	RAHu/Fbn	
Biological origin	Rabbit	
Physical form	Delipidated, heat inactivated, lyophilized, stable whole antiserum	
Preservative	Sodium azide 0.7 mg/ml	
Immunogen	<p>Fibronectin is a glycoprotein with a molecular weight of 440,000 and consists of two identical peptide chains. Its mean concentration in plasma is 330 µg/ml. Elevated plasma levels of fibronectin are observed in chronic active liver disease; decreased values are found in cases of acute leukaemia, sepsis, severe burns, acute pancreatitis, inflammatory processes, haemorrhagic shock and polytrauma. Fibronectin is also present on cell surfaces. It can be cross-linked to the fibrin clot by the action of F XIIIa. As formation of the clot occurs approximately 50% of the plasma Fibronectin is lost.</p> <p>Freund's complete adjuvant is used in the first step of the immunization procedure.</p>	
Adsorption	<p>Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other human serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.</p>	
Identity & Specificity	<p>The reactivity of the antiserum is restricted to fibronectin. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against human plasma, sera and purified fibronectin a single precipitin line is obtained. Testing in electroimmunodiffusion (Laurell) gives a single precipitation line. No precipitation reaction is obtained with other protein in plasma or serum.</p>	
Cross-reactivity	<p>The antiserum does not cross react with any other human plasma proteins as tested in gel-diffusion techniques. Inter-species cross reactivity is a normal feature of antibodies to mammalian serum proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail, however in double radial immunodiffusion a reaction with cow, cat, dog and monkey have been observed.</p>	
Protein concentration	<p>Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal rabbit serum. No foreign proteins added.</p>	
Antibody titre	<p>Precipitin titre 1:64 when tested against pooled human amniotic fluid in agar-block immunodiffusion titration.</p>	
Intended use	<p>In precipitating techniques as immunoelectrophoresis and single and double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of fibronectin or to determine its concentration. The presence of non-precipitating antibodies has not been assayed. This does not exclude the use of the antiserum in non-precipitating antibody-binding techniques as ELISA and Western blotting if proper controls are included.</p>	
Directions for use	<p>In immunoelectrophoresis use 2 µl amniotic fluid or equivalent against 120 µl antiserum. In double radial immunodiffusion use a rosette arrangement with 10 µl antiserum in 3 mm diameter center well and 2 µl amniotic fluid or hepatoma serum samples (neat and serially diluted) in 2 mm diameter peripheral wells.</p>	
Packing	<p>Vial with 1 ml lyophilized antiserum.</p>	
Storage / shelf life	<p>Lyophilized at +4°C</p> <p>reconstituted at or below -20°C</p> <p>reconstituted at +4°C</p>	<p>at least 10 years</p> <p>3-5 years</p> <p>7 days</p>
Handling	<p>The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the antiserum. Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day.</p>	
Caution	<p>This antiserum should be handled by qualified persons only and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For <i>in vitro</i> research purposes only.</p>	

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